

Miniature Power PCB Relay MSR

- 1 pole 8/10A, 1form C (CO) or 1 form A (NO) contact
- High inrush currents with AgSnO₂ contacts (TV4 0 65A)
- 4kV/8mm coil-contact
- Reinforced insulation (protection class II)
- Ambient temperature up to 85°C at 8A
- Plastic materials according to IEC 60335-1 (domestic appliances)

Typical applications

HVAC, interface technology, PLC's, power supplies, TV-/monitor control, domestic appliances, Hi-Fi products, timers



F0143 E



Approvals

VDE REG.-Nr 3919, UL E214024
Technical data of approved types on request

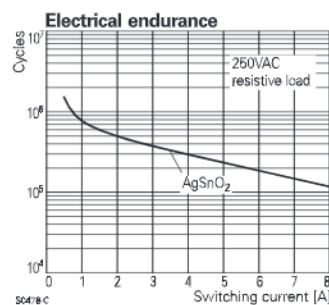
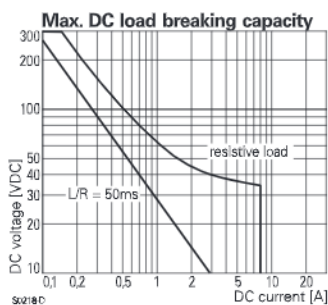
Contact Data

Contact arrangement	1 form C (CO) or 1 form A (NO)
Rated voltage	250VAC
Max. switching voltage	400VAC
Rated current	
versions A,B	8A
versions C, D	10A
Limiting making current, max 4s, df 10%	15A
version A302, max 20ms	65A
Breaking capacity max.	2000VA
Contact material	AgSnO ₂ , AgNi90/10
Frequency of operation, with/without load	6/1200min-1
Operate/release time max.	10/5ms
Bounce time max., form A/form B	3/10ms

Contact ratings

Type	Contact	Load	Cycles
IEC 61810			
V23061-A1***-A302	A (NO)	8A, 250VAC, cosφ=1, 85°C	100x10 ³
V23061-C2***-A802	A (NO)	10A, 250VAC, cosφ=1, 85°C	100x10 ³
V23061-C2***-A802	A (NO)	5A, 250VAC, cosφ=1, 105°C	100x10 ³
UL 508			
V23061-A1***-A302	A (NO)	TV4, Tungsten, 120VAC, 40°C	25x10 ³
V23061-A1***-A302	A (NO)	Pilot duty, A300, 40°C	6x10 ³
V23061-C2***-A802	A (NO)	10A, 240VAC, general purpose, 40°C	30x10 ³
EN60730-1			
V23061-A1***-A302	A (NO)	2(2)A, 250VAC, 85°C	100x10 ³
V23061-C2***-A802	A (NO)	4(4)A, 250VAC, 85°C	100x10 ³

Mechanical endurance, DC coil 10x10⁶ operations



Coil Data

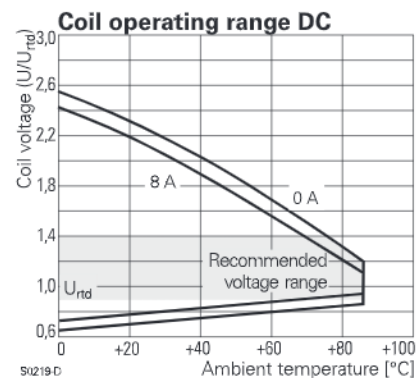
Coil voltage range	3 to 60VDC
Operative range, IEC 61810	2
Coil insulation system according UL	classA or classF

Coil versions, DC coil

Coil code	Rated voltage VDC	Operate voltage VDC	Release voltage VDC	Coil resistance Ω±10% ¹⁾	Rated coil power mW
001	3	2.1	0.3	40	225
002	5	3.4	0.5	118	212
003	6	4.1	0.6	165	218
004	9	6.1	0.9	364	223
005	12	8.2	1.2	652	221
007	24	16.3	2.4	2270	254
009	48	32.6	4.8	8790	262
010	60	40.8	6.0	15265 ¹⁾	236

1) Coil resistance ±15%

All figures are given for coil without pre-energization, at ambient temperature +23°C
Other coil voltages on request



Insulation Data

Initial dielectric strength	
between open contacts	1000V _{rms}
between contact and coil	4000V _{rms}
Clearance/creepage	
between contact and coil	≥8/8mm
Material group of insulation parts	IIIa

Miniature Power PCB Relay MSR (Continued)

Other Data

Material compliance: EU RoHS/ELV, China RoHS, REACH, Halogen content refer to the Product Compliance Support Center at www.te.com/customersupport/rohssupportcenter

Ambient temperature - 40 to +85°C

Category of environmental protection
IEC 61810 RTII - flux proof,
RTIII - wash tight

Vibration resistance (functional)
form A (NO) / form B (NC) 10/4g

Vibration resistance (destructive)
form A (NO) / form B (NC) 20/5g

Shock resistance (destructive) 100g

Terminal type PCB-THT

Weight 11g

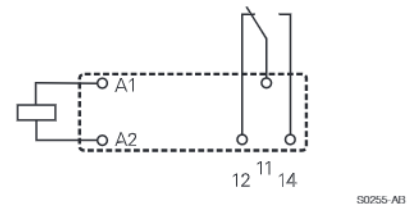
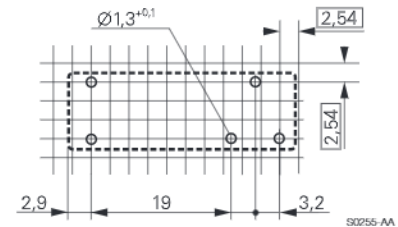
Resistance to soldering heat THT
IEC 60068-2-20 RTII: 270°C/10s
RTIII: 260°C/5s

Packaging/unit tube/20 pcs., box/1000 pcs.

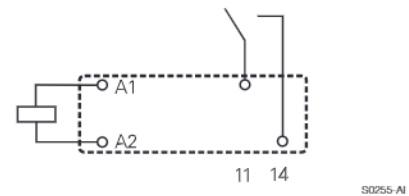
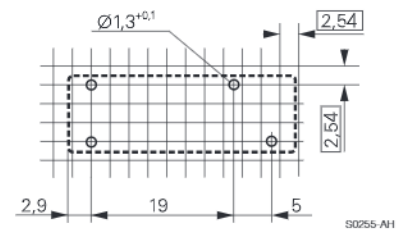
PCB layout / terminal assignment

Bottom view on solder pins

1 form C, 1 CO contact, 3.2mm

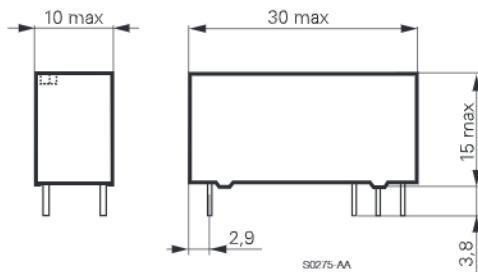


1 form A, 1 NO contact, 5mm



Dimensions

1 form C, 1 CO contact, 3.2mm



1 form A, 1 NO contact, 5mm

